

AMENDMENTS TO THE CLAIMS

Claims 1-19 (Cancelled).

20. (Previously presented) The operating method as claimed in claim 30, further comprising the steps of:

controlling a multiplexer by the selection lines such that data transmitted over a module transmission line of the selected measurement module are forwarded via the multiplexer to the central unit.

Claims 21 and 22 (Cancelled).

23. (Previously presented) The operating method as claimed in claim 30, wherein:

the measurement modules are periodically selected by the central unit.

Claims 24 - 27 (Cancelled).

28. (Currently Amended) A measuring device for process technology, to be used in measurement and/or cleaning and/or calibration installations in the area of process automation, for measuring pH-values and/or redox potentials and/or other process parameters, comprising:

a central unit;

a central transmission line;

at least one measurement module connected to said central unit by said central transmission line for transferring a data signal over said central transmission line;

a multiplexer;

a selection line ~~assigned to~~ associated with each measurement module for

connecting its ~~respective~~ associated measurement module to said central unit[[:]]
and to said multiplexer; and

~~a multiplexer; and~~

a measurement module transmission line associated with each measurement module, for connecting its ~~respective~~ associated measurement module to said multiplexer, wherein:

each measurement module is selectable by said central unit by a selection line;

said central transmission line and the selection line being different lines;
the output of said multiplexer is connectable with said central unit; and
said multiplexer is controllable via said selection lines.

Claim 29 (Cancelled).

30. (Currently amended) An operating method for a measuring device for process technology, to be used in measurement and/or cleaning and/or calibration installations in the area of process automation, for measuring pH-values and/or redox potentials and/or other process parameters, having a central unit, and at least one measurement module connected with the central unit; comprising the steps of:

providing a selection line for each measurement module over which a data signal is transferred;

transmitting data ~~transmitted~~ from the central unit over a central transmission line to all measurement modules;

selecting a measurement module by the central unit and a an associated selection line; and

utilizing data sent from the central unit only in the measurement module selected by means of a the associated selection line, wherein:

different measuring modules are selected, when more than one measuring module is provided, for different selection times periodically by the central unit; and the selection times are changed.

31. (Currently amended) An operating method for a measuring device for process technology, to be used in measurement and/or cleaning and/or calibration installations in the area of process automation, for measuring pH-values and/or redox potentials and/or other process parameters, having a central unit, and at least one measurement module connected with the central unit; comprising the steps of:

providing a selection line for each measurement module over which a data signal is transferred; and

selecting a measurement module by the central unit and ~~a~~ an associated selection line, wherein:

the measurement modules are selected, when more than one measurement module is provided, a plurality of times within one cycle.